

**WHAT IS CLAIMED IS:**

1. An electrical plug for substantially avoiding unintended disconnection of an external electrically powered device connected to the electrical plug, the electrical plug comprising:

5 a body; and

electrically conductive means disposed in the body for connection of an external source of electrical power to the electrically powered device, the electrically conductive means being configured to provide increased tension mechanical contact between at least one of a) the plug and the external electrical power source and b) the plug and the  
10 external electrically powered device.

2. The electrical plug according to claim 1 wherein the electrically conductive means is configured to provide increased tension mechanical contact between the plug and the external electrical power source, the electrically conductive means comprising:

at least two prongs having respective proximal ends disposed in the body and  
15 having respective distal ends adapted for insertion in an electrical power outlet, the proximal and distal ends being spanned by respective edges and longitudinal surfaces, at least one of the prongs being recurved or arched along at least one of the edges or longitudinal surfaces to increase tension between the at least one prong and a socket of the electrical power outlet.

20 3. The electrical plug according to claim 2 wherein at least one of the prongs has a roughened surface so that friction is increased between the at least one prong and the socket of the electrical power outlet into which the plug is selectively inserted.

4. The electrical plug according to claim 3 wherein the at least one prong is roughened by sandblasting, etching, machining, or casting to have a roughened surface or is provided with rounded, serrated, or non-planar edges.

5. The electrical plug according to claim 2 wherein the recurving or arching  
5 extends along only a portion of the prong.

6. The electrical plug according to claim 2 wherein the at least one prong comprises a plurality of recurved or arched portions spaced along the length of the at least one prong.

7. The electrical plug according to claim 6 wherein the at least one prong has  
10 opposite facing recurved portions or arches to increase tension between the at least one prong and the socket of the electrical power outlet.

8. The electrical plug according to claim 7 wherein the the opposite facing recurved portions or arches comprise the entire prong being formed as two opposite facing recurved portions or arches or the opposite facing recurved portions or arches  
15 extend over only a portion of the length of the prong such the remainder of the prong has a planar surface.

9. The electrical plug according to 2 wherein the at least one of prong comprises an asymmetric arch.

10. The electrical plug according to claim 1 wherein the electrically conductive  
20 means comprises:

an electrical male plug comprising at least two prongs splayed inwardly or outwardly to increase tension between the prongs and sockets of an electrical power outlet;

a spring mechanism that exerts a force on the prongs to splay the prongs; and

5 means for enabling a counterforce to be exerted on the spring mechanism to reduce the splaying of the prongs to enable the prongs to be more easily inserted into or removed from the electrical power outlet.

11. The electrical plug according to claim 10 wherein the body is constructed from resilient material and the spring mechanism results from the resilient characteristic  
10 of the material used in the construction of the body.

12. The electrical plug according to claim 11 wherein the means that exerts a counterforce on the spring mechanism to reduce the splaying of the prongs to enable the prongs to be more easily inserted into or removed from the sockets of the electrical power outlet comprises a portion of the body of the plug in contact with the resilient material  
15 adapted to be squeezed to compress the resilient material.

13. The electrical plug according to claim 1 wherein the electrically conductive means is configured to provide increased tension mechanical contact between the plug and the external electrically powered device, the electrically conductive means comprising:

20 at least two sockets disposed in the body adapted for insertion of male electrical contacts; and

female contacts disposed in at least one of the two sockets and configured to provide increased tension mechanical contact with at least one of the male electrical contacts.

14. The electrical plug according to claim 13 wherein the female contacts are  
5 recurved or arched to increase tension with at least one of the male electrical contacts.

15. The electrical plug according to claim 13 wherein the female contacts are cantilevered to increase tension with at least one of the male electrical contacts.

16. The electrical plug according to claim 1, further comprising an electrical cable that is expandable in length, the cable being connected at one end to the plug and at a  
10 second end to the external electrical power source or the external electrically powered device.

17. Apparatus for substantially avoiding unintended disconnection of an electrically powered device from an external source of electrical power, the electrically powered device being connected by an electrical cable attached at one end to the  
15 electrically powered device and at a second end to the external source of electrical power, the apparatus comprising:

a body attached to at least one of the ends of the electrical cable; and

electrically conductive means disposed in the body for connection of the external source of electrical power to the electrically powered device, the electrically conductive  
20 means being configured to provide increased tension mechanical contact in the range of 10 to 25 pounds between at least one of a) the apparatus and the external electrical power source and b) the apparatus and the external electrically powered device.

18. Apparatus that attaches to a standard electrical male plug at one end of an electrical cable attached at a second end to an electrically powered device, the apparatus comprising:

5 a body comprising a standard female receptacle at a first end, the receptacle comprising at least two sockets into which at least two prongs of the standard electrical plug are selectively inserted;

one of a) an electrical cable disposed at a second end of the body, the electrical cable being electrically coupled to the sockets of the receptacle, or b) electrically conductive means disposed at a second end of the body electrically coupled to the  
10 sockets of the receptacle, the electrically conductive means disposed in the body for connection of an external source of electrical power to the electrically powered device, the electrically conductive means being configured to provide increased tension mechanical contact between the electrically conductive means and an external source of electrical power; and

15 a locking mechanism to secure the standard electrical male plug to the apparatus.

19. The apparatus according to claim 18 wherein the locking mechanism comprises a strap and a hook mounted to the body for locking the standard electrical male plug to the apparatus.

20 20. The apparatus according to claim 18 wherein the locking mechanism comprises a latch mounted to the body for locking at least one prong of the standard electrical male plug to the apparatus.